

WHAT IS CLAIMED IS:

1. An immortalized cell established from a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced.

2. The immortalized cell according to claim 1, wherein the transgenic animal is a rat.

3. An established cell derived from retinal capillary endothelial cells, which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein.

4. The established cell according to claim 3, having a deposition number of FERM BP-6507.

5. A method of establishing an immortalized cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein, the method comprising treating retinal capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

6. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein, the cell obtained by treating retinal capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

7. An established cell derived from choroid plexus epithelial cells, which expresses a temperature sensitive SV40

large T-antigen gene, shows localization of  $\text{Na}^+ - \text{K}^+$  ATPase and GLUT-1 transporter in the cell membrane, and when cultured in a monolayer, shows the localization of  $\text{Na}^+ - \text{K}^+$  ATPase in the apical side.

5           8. The established cell according to claim 7, having a deposition number of FERM BP-6508.

          9. A method of establishing an immortalized cell which expresses a temperature sensitive SV40 large T-antigen gene, shows localization of  $\text{Na}^+ - \text{K}^+$  ATPase and GLUT-1 transporter in  
10 the cell membrane, and when cultured in a monolayer, shows the localization of  $\text{Na}^+ - \text{K}^+$  ATPase in the apical side, the method comprising treating choroidal epithelium tissues of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and  
15 subculturing the resulting cells.

          10. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, shows localization of  $\text{Na}^+ - \text{K}^+$  ATPase and GLUT-1 transporter in the cell membrane, and when  
20 cultured in a monolayer, shows the localization of  $\text{Na}^+ - \text{K}^+$  ATPase in the apical side, which is obtained by treating choroidal epithelium tissues of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

25           11. An established cell derived from brain capillary endothelial cells, which expresses a temperature sensitive SV40 large T-antigen, GLUT-1 transporter, p-glycoprotein, alkaline

phosphatase, and  $\gamma$ -glutamyltransferase.

12. The established cell according to claim 11, having a deposition number of FERM BP-6873.

13. A method of establishing an immortalized cell which  
5 expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, p-glycoprotein, alkaline phosphatase, and  $\gamma$ -glutamyltransferase, the method comprising treating brain capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has  
10 been introduced with protease and subculturing the resulting cells.

14. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, p-glycoprotein, alkaline phosphatase, and  $\gamma$ -  
15 glutamyltransferase, the cell obtained by treating brain capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.